



# Town of Merrimack, New Hampshire

6 Baboosic Lake Rd · Merrimack, NH 03054 · [www.merrimacknh.gov](http://www.merrimacknh.gov)

July 27, 2015

## REQUEST FOR BID FRONT END LOADER

Sealed bids will be received by the Town of Merrimack until 2:00 PM on Tuesday, August 18, 2015 to supply, deliver, and provide One (1) New or new on lot (one model year older than current) front end loader in accordance with the enclosed detailed bid specifications with the following conditions.

In addition, the Town may or may not trade in a 2003 John Deere 624H Loader. The loader has 11,392 hours on it. The serial # DW624HX587619. To inspect vehicle, please contact Betsy Berube at (603) 423-8551. Please indicate separately on the Bid Form any applicable trade-in allowance.

The bid shall be submitted on the Bid Form furnished herewith and shall exclude state and federal taxes not applicable to municipalities. The bid price shall be quoted F.O.B. Town of Merrimack, Highway Department, 80 Turkey Hill Rd, Merrimack, NH 03054.

The Town reserves the right to reject any or all bids, to waive irregularities in the bids, and to accept the bid which best serves the interest of the Town.

Bids must be sealed, marked "Bid on Front End Loader", and be received by the Town of Merrimack Finance Department by the date and time specified above. Our address for mailing is 6 Baboosic Lake Road, Merrimack, NH 03054. Our physical address for hand delivery only is 8 Baboosic Lake Road, Merrimack, NH 03054. Please note mail sent to our physical address will not be delivered.

It is the bidder's responsibility to confirm the bid is received by the Finance Department by the date and time specified.

Complete descriptive literature, including warranty information shall accompany the bid.

The Town of Merrimack's Purchasing Policy is available on the Town's website: <http://www.merrimacknh.gov/finance-department/pages/bid-opportunities>  
a copy may be obtained by contacting the Purchasing Agent.

For additional information contact Xenia Simpson, Purchasing Agent, at [xsimpson@merrimacknh.gov](mailto:xsimpson@merrimacknh.gov) or (603) 424-7075.



## TOWN OF MERRIMACK, NEW HAMPSHIRE

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### FINANCE DEPARTMENT

6 Baboosic Lake Road  
Merrimack, NH 03054

Tel: 603-424-7075  
Fax: 603-424-0516

### SPECIFICATIONS

**1.0 SCOPE:** This specification covers the Town of Merrimack's requirements for 4-wheel drive front end loaders (articulated) complete with equipment as specified herein.

**2.0 APPLICABLE SPECIFICATIONS:** There are no other N.H. Specifications applicable to this specification.

**3.0 REQUIREMENTS, GENERAL:** All new equipment. Machines are to be as those provided to the construction industry. So-called "Governmental" specification machines will not be accepted. A Governmental machine is defined as a standard production machine that has been modified to meet specific minimum specifications, such as, but not limited to, increasing horse power, adding counter weights, etc. All manufacturer's standard equipment for the make and model offered, not in conflict with the specific requirements of this specification, must be furnished.

- All ratings and capacities shall be per S.A.E. Standards for the BASE machine specified with mfg pin-on; 3.5 CY. general purpose bucket and tires specified.
- loader to be equipped with a fixed drawbar and tie-downs.
- HD. Rear Bottom Guard.
- Vandal protection equipment must include keyed alike locking engine hood and side covers, locking fuel and coolant access doors (if so equipped), and locking cab doors. If fuel filler is located outside engine hood or panels, a locking fuel cap shall be furnished. If battery box is located outside it must be lockable and keyed alike.
- Ride control
- Unit to be equipped with an American Coupler System Pro Series 2000 quick hitch male master (Serial #43591 on existing loader), fully operated from inside the cab.
- A mechanical or electric backup alarm shall be furnished.
- Hydraulic pump(s) shall be provided for loader implements. (Min. of 59 GPM) at engine's rated RPM, delivering minimum 16 gpm to steering and provide a lift capacity of at least 13,000 lbs. with a 3.5 cubic yard bucket to full height.
- An extra set of hydraulic lines shall be installed and run to end of the boom or cross tube as appropriate to allow for connecting the Town's existing snow plow.

#### 3.0.1 ENGINE:

- Diesel, Tier IV Final, 6 cylinder, 4 cycle, water cooled and sleevable.
- Minimum 182 net HP at rated RPM.
- Air filter with centrifugal pre-cleaner and condition indicator.

- Fuel filter with water separator.
- Cold start to -20 without the use of ether. Ether start aid will not be accepted.
- 110 volt block heater.
- Reversible engine cooling fan.
- Auto Idle and shut down
- Diesel Particulate Filter (DPF) must be warrantied for 10,000 hours or replacements provides up to 10,000 hours.

### **3.0.2 TRANSMISSION:**

- Full power shift or hydrostatic drive, manually operated.
- Minimum 4 speed ranges forward and 3 reverse.
- Tap speed forward to be at least 20 MPH and top speed reverse to be at least 15 MPH.
- loader must be capable of being shifted from one speed range to another including forward and reverse at working speed without the use of an operator controlled clutch.
- Speed ranges may be accomplished by gear reduction, multi-stage torque converter, or a combination of both.

### **3.0.3 DIFFERENTIAL(S) :**

- Front or rear differential to be NO-SPIN or torque proportioning (limited slip is not acceptable). Hydraulic differential lock is preferable.

### **3.0.4 BRAKES/STEERING:**

- Power assisted articulated steering via a steering wheel.
- Power assisted wet disc brakes.
- Brakes to be self-adjusting disc type on each wheel or axle.
- Independent parking brake. o

### **3.0.5 INSTRUMENTS:**

- Diagnostic Monitoring System: diagnostic trouble code reader, ammeter/voltmeter, engine coolant temperature, oil pressure, converter/transmission oil temperature, mph and hour meter.

### **3.0.6 CAB:**

- Fully enclosed, air conditioned (factory installed), pressurized ROPS cab equipped with heater and defroster for front and rear windows.
- Tinted Glass
- Rubber floor mat
- AM/FM Radio
- Tilt and telescoping Steering wheel
- Operating side windows
- Color Rear View Camera system.
- Pre-wired for beacon with bracket(s).
- Dome Light
- Intermittent Windshield wipers and washers for front and rear windows.
- Exterior Lighting to include Headlights (2) with guards, taillights (2), front and rear working lights (2), turning lights (4) and license plate light and mount (I).
- Seat to be minimum mid+ backrest covered in fabric with air suspension and seat

belt.

- Loader must be equipped with inside mirror(s) and heated L&R outside rear view mirrors.
- Front window sun visor
- Full fenders Front and Rear
- Maximum height of cab to be 10'-11".

### **3.0.7 ELECTRICAL SYSTEM:**

- 12 or 24 volt high capacity Battery(s) with main disconnect.
- Minimum 100 amp alternator must be of sufficient capacity to adequately support the loader as equipped and provide sufficient cranking power to start the engine at -20 degrees F. without ether.
- Corrosion protection and Seal tight connector package.
- 12 Volt, 20 AMP accessory terminal shall be provided inside the cab.

### **3.0.8 BUCKET:**

- Manufactured by American Coupler Systems with width of bucket to be at least equal to the width of the tires.
- Capacity minimum 3.5 cubic yards (heaped) and a bolt on cutting edge.
- An auxiliary spill guard shall be provided, but shall not be considered in meeting capacity specifications in this section.
- Three (3) lifting hooks shall be provided.
- Automatic return to dig.
- Breakout force (SAE J732C) minimum 28,000 lbs.
- Dump clearance at 45° shall be a minimum of 113" with tires specified. Custom buckets manufactured for the purpose of meeting minimum dump clearance specification will not be accepted.

### **3.0.9 TIRES:**

- Michelin X SnoPlus L2 M&S or Michelin XTLA2 radial, 20.5 R25 or equivalent. Ballast in tires or use of optional counterweights is not acceptable as a means of meeting the criteria of this specification.
- Counterweight used as standard equipment and described as such in manufacturer's descriptive literature is acceptable.
- A spare rim is required for each unit.

### **3.0.10 COLOR:**

- Manufacturer's standard lead free construction yellow.

### **4.0 PERFORMANCE REQUIREMENTS:**

- Operating weight with standard equipment. ROPS cab, Pin on Bucket. full fuel, no additional counter-weights, shall equal or exceed 34,000 lbs.
- Static tipping load at 40° turn of at least 26,400 lbs.
- Static tipping load, straight (S.A.E.), of at least 30,400 lbs.

### **5.0 QUALITY ASSURANCE PROVISIONS:**

- Equipment will be inspected upon delivery prior to acceptance by the Town of Merrimack.

## **6.0 PREPARATION FOR DELIVERY:**

- Equipment to be delivered ready for immediate operational use, serviced, and lubricated.
- Delivery shall be made to the Town of Merrimack within 45 days of issuance of the purchase order. Failure to meet that deadline will result in a \$100.00 per day fine plus vendor will be required to provide a similar unit to the Town for use until delivery of the new loader is made.
- Cooling system to be protected with permanent type anti-freeze to a temperature of at least -34 degrees F.
- A complete set of operator. parts. service and wiring/electrical manuals shall be provided in book format and on CDROM(s) with each unit. Shop manuals and parts lists must include engine as well as basic machine components.
- Unless equipment offered is outfitted with 100% self-contained, on-board diagnostic troubleshooting capability, the vendor is to supply One (1) complete set of software and hardware (com device and cables to connect to Town owned laptop) to diagnose and/or retrieve and clear any stored active or inactive codes for each unit offered. Software or hardware upgrades provided at no additional cost to the Town of Merrimack for period of ten (10) years from the In-service date.
- In addition, one complete set of the same software and hardware above to be provided with the same terms for any updates from the manufacturer for a period of ten (10) years for the unit provided to the Agency office with each Purchase Order.
- Successful vendor will furnish at no additional charge, one day of training by a qualified representative to instruct/familiarize department mechanics/technicians in all diagnostic procedures and how to use the software and web based diagnostic and troubleshooting processes of the purchased equipment.
- Successful vendor will furnish at no additional charge, a qualified representative to instruct department personnel (operators) in the operation and preventative maintenance of the purchased equipment. Approximately 2 hours of instruction.
- First major service (typically 1,000 hrs +/-) to be performed by vendor at the Merrimack Highway Facility at no additional cost.

All training to be done at Town of Merrimack Highway Garage, 80 Turkey Hill Road.

## **7.0 WARRANTY:**

- A Five (5) year/7,500 hour NO COST warranty covering the entire machine including emission system, except tires, glass and battery(s) shall be provided.
- Units will be repaired within 3 working days or a replacement unit will be provided at the vendor's expense. Vendor will be required to provide Insurance on unit and provide any oil and filter(s) or other routine service parts needed at required service intervals for loaner unit.
- Warranty work will be performed at the location the machine is assigned.
- Any transportation costs shall be borne by vendor.

## **8.0 TRADE-IN:**

- The Town will be trading in a 2003 John Deere 624H Loader as part of this bid. The loader has 11,392 hours on it. Serial #DW624HX587619.

- To schedule an inspection of the loader contact the Betsy Berube at (603)423-8551.

**9.0 DEMONSTRATION UNIT:**

- Bidders are encouraged to supply a loader for operator's to demo during the bidding period.
- Demonstration unit is to be same make and model that will be bid.
- To schedule an inspection of the loader contact the Betsy Berube at (603)423-8551.



## TOWN OF MERRIMACK, NEW HAMPSHIRE

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### FINANCE DEPARTMENT

6 Baboosic Lake Road  
Merrimack, NH 03054

Tel: 603-424-7075  
Fax: 603-424-0516

### Front End Loader

#### BID FORM

*Must be received by 2:00 PM on Tuesday, August 18, 2015*

One New Front End Loader, according to the  
Town's bid specifications, delivered

\$ \_\_\_\_\_

Trade-in Allowance for 2003 624H Loader  
#DW624HX587619

\$ \_\_\_\_\_

Net Bid Amount

\$ \_\_\_\_\_

The above bid is provided in accordance with the Town's bid invitation  
dated July 27, 2015 except as indicated below.

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Bidder: \_\_\_\_\_

Street Address: \_\_\_\_\_

City, State, Zip Code: \_\_\_\_\_

Phone No: \_\_\_\_\_ Fax No: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

E-Mail: \_\_\_\_\_